

## IN THE CLAIMS

1. (presently amended) A method for scheduling communication between a plurality of components coupled to at least one communication medium and at least one scheduling processor comprising the steps of:  
initiating a transfer by said scheduling processor sending a transfer command to a first component;  
transferring data from said first component to a second component over said communication medium;  
said second component notifying a third component by said second component upon completion of said transferring data step;  
wherein said transfer command to said first component identifies said second and said third components.
2. (presently amended) The method of claim 1 ~~wherein~~ further comprising the steps of: said transfer command is sent by a schedule processor  
initiating another transfer by said scheduling processor sending a transfer command to a fourth component;  
transferring data from said fourth component to a fifth component;  
said fifth component notifying a sixth component upon completion of said transferring data step;  
wherein said transfer command to said fourth component identifies said fifth and said sixth components.
3. (presently amended) The method of claim 2 wherein said components include a microprocessor and said method further comprises the step of ~~wherein said schedule processor further comprises:~~  
said a microprocessor executing program code.

4. (presently amended)A method of controlling system operation between a plurality of components coupled to at least one communication medium and at least one scheduler comprising the steps of:  
    said scheduler sending a first command to a first component to transfer data over said communication medium;  
    said scheduler sending a second command to a second component to transfer data over said communication medium;  
    notifying said second component upon completion of said first command;  
    initiating execution of said second command upon completion of said notifying step.
5. (original) The method of claim 4 wherein said sending a first command and said sending a second command step can occur in any order.
6. (presently amended)The method of claim 5 wherein said method further comprises the step of: sending a first command and said sending a second command are performed by a scheduler  
    said scheduler deciding an order to send said first command and said second command and creating a chained sequence of transfers.
7. (presently amended)The method of claim 6 wherein said scheduler includes further comprises a microprocessor executing a program and said method further comprises the step of:  
    said microprocessor executing a program.
8. (presently amended)A method of controlling system operation between a plurality of components coupled to at least one communication medium and at least one scheduler comprising the steps of:  
    receiving a first command from said scheduler by a first component to transfer data over said communication medium;  
    receiving a second command from said scheduler by a second component to transfer data over said communication medium;

performing said first command;

notifying said second component upon completion of said performing step; and

initiating said second command upon completion of said notifying step.

9. (original) The method of claim 8 wherein said receiving a first command, said receiving a second command, and said performing steps can occur in any order.
10. (presently amended) The method of claim 9 further comprising the steps of:  
sending said first command by said a scheduler; and  
sending said second command by said scheduler
11. (presently amended) The method of claim 10 wherein said scheduler includes further comprises: a microprocessor executing a program and said method further comprises the step of:  
said microprocessor executing a program.
12. (presently amended) A method of controlling a system including a plurality of components coupled to at least one communication medium and at least one scheduler comprising the steps of:  
said scheduler receiving transfer requests from requesting components;  
said scheduler constructing a transfer command for each of said transfer requests by a scheduler;  
said scheduler sending said transfer commands to said requesting components a first component;  
wherein said transfer command further comprises;  
(a) a destination address identifying a destination second component; and  
(b) a notification address identifying an acknowledge third component.
13. (presently amended) The method of claim 12 wherein said scheduler includes further comprises a microprocessor executing a program and said method further comprises the step of:

said microprocessor executing program code.

14-25. (cancelled).

26. (new) The method of claim 2 further comprising the steps of:  
said scheduling processor deciding an order to perform said transfers; and  
creating a chained sequence of said transfers.
27. (new) The method of claim 3 further comprising the steps of:  
said scheduling processor deciding an order to perform said transfers; and  
creating a chained sequence of said transfers.
28. (new) The method of claim 12 further comprising the steps of:  
said scheduling processor deciding an order to perform said transfers; and  
creating a chained sequence of said transfers.
29. (new) The method of claim 1 wherein:  
said transfer command is communicated over a first medium; and  
said transferring step is performed over a second medium.
30. (new) The method of claim 4 wherein:  
said step of sending a first command is communicated over a first medium; and  
said step of sending a second command is communicated over a second medium.
31. (new) The method of claim 4 further comprising the step of:  
transferring data from said first component over a first medium; and  
wherein said step of sending a first command is communicated over a second medium.
32. (new) The method of claim 6 wherein:  
said step of sending a first command is communicated over a first medium; and  
said step of sending a second command is communicated over a second medium.

33. (new) The method of claim 6 further comprising the step of:  
transferring data from said first component over a first medium; and  
wherein said step of sending a first command is communicated over a second medium.
34. (new) The method of claim 8 wherein:  
said first command is communicated over a first medium; and  
said step of performing said first command is performed over a second medium.
35. (new) The method of claim 10 wherein:  
said first command is communicated over a first medium; and  
said step of performing said first command is performed over a second medium.
36. (new) The method of claim 12 further comprising the step of:  
transferring data from said requesting components over a first medium; and  
wherein said step of sending said transfer commands is performed over a second medium.
37. (new) The method of claim 12 further comprising the step of:  
transferring data from said requesting components over a first medium; and  
wherein said step of sending said transfer commands is performed over a plurality of  
second mediums.